

Abstract of the Disclosure

In a visual inspection method and a visual inspection apparatus, a picture processing unit converts an original picture, which is obtained by taking a photograph of a BGA illuminated by a ring illuminator from above, by using a camera, and labels a binary picture obtained by this binary conversion. Then, it forms a circumscribing rectangle circumscribing an outer circumference of a labeling picture obtained by the labeling, and inverts a labeling picture within the formed circumscribing rectangle, and removes a portion of a region formed by the outer circumference and the circumscribing rectangle in a picture obtained by the inversion, and then generates an inspection picture by adding a picture obtained by the removal to the labeling picture, and accordingly judges a pass or rejection of the inspection target sample based on the generated inspection picture. Thus, the appearance inspection can be carried out at a high accuracy irrespectively of a low cost.

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